

APPENDIX A

DOE P 450.4 AND ISO 14001 INTEGRATION

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This appendix provides additional information regarding integration of the International Organization for Standardization environmental management system as prescribed in ISO 14001 and the DOE Safety Management System as prescribed in DOE P 450.4. Table A-1 shows how the elements of ISO 14001 and the Guiding Principles and Core Function of DOE P 450.4 were integrated to form the Project Hanford Integrated Environment, Safety and Health Management System (ISMS).

Table A-1. Integrated Environment, Safety and Health Management Integration of DOE P 450.4 and ISO 14001.

ISO 14001 Elements	DOE P 450.4 Safety Management System Policy		FDH ISMS
	Guiding Principles	Core Functions	
4.1 General Requirement for an Environmental Management System	General Requirement for an Integrated Safety Management System consistent with the DOE P 450.4 Safety Management System Policy (DEAR, 48 CFR 970.5204-2)		General Requirement for an Integrated Safety & Environmental Management System consistent with DOE P 450.4 & ISO 14001
4.2 Environmental Policy	DOE P 450.4 Policy		Establish ES&H Policy
4.3 Planning & Analysis * Environmental Aspects * Legal & other Requirements * Objectives & Targets * Environmental management programs	Identification of Safety Hazards & Requirements *Safety standards & requirements Clear Roles & Responsibilities *Lines of Authority & Responsibility Balanced Priorities	Define Scope of Work *Translate Mission into Work Analyze The Hazards *Safety hazards identified, analyzed & categorized	Define Scope of Work
			Identify Hazards and Requirements
4.4 Implementation & Operations * Structure & Responsibility * Training, Awareness & Competence * Communication * Document Control * Operational Control * Emergency Preparedness & Response	Line Management Responsibility Clear Roles & Responsibilities *Lines of Authority & Responsibility Competence Commensurate with Responsibilities Operations Authorization 	Develop and Implement Controls	Analyze Hazard Implement Controls
		Perform Work Within Controls	Perform Work
4.5 Checking/Corrective Action * Monitoring & Measurement * Non-conformance & Corrective and Preventative action * Records * EMS Audits	Clear Roles & Responsibilities *lines of authority & responsibility	Provide Feedback on Adequacy of Controls Continuous Improvement in Defining & Planning Work	Feedback/Continuous Improvement
4.6 Management Review * Top Management Review			Management Review

The ISMS is the whole system consisting of all of the identified system sub-elements from DOE P 450.4 and ISO 14001.

